#3

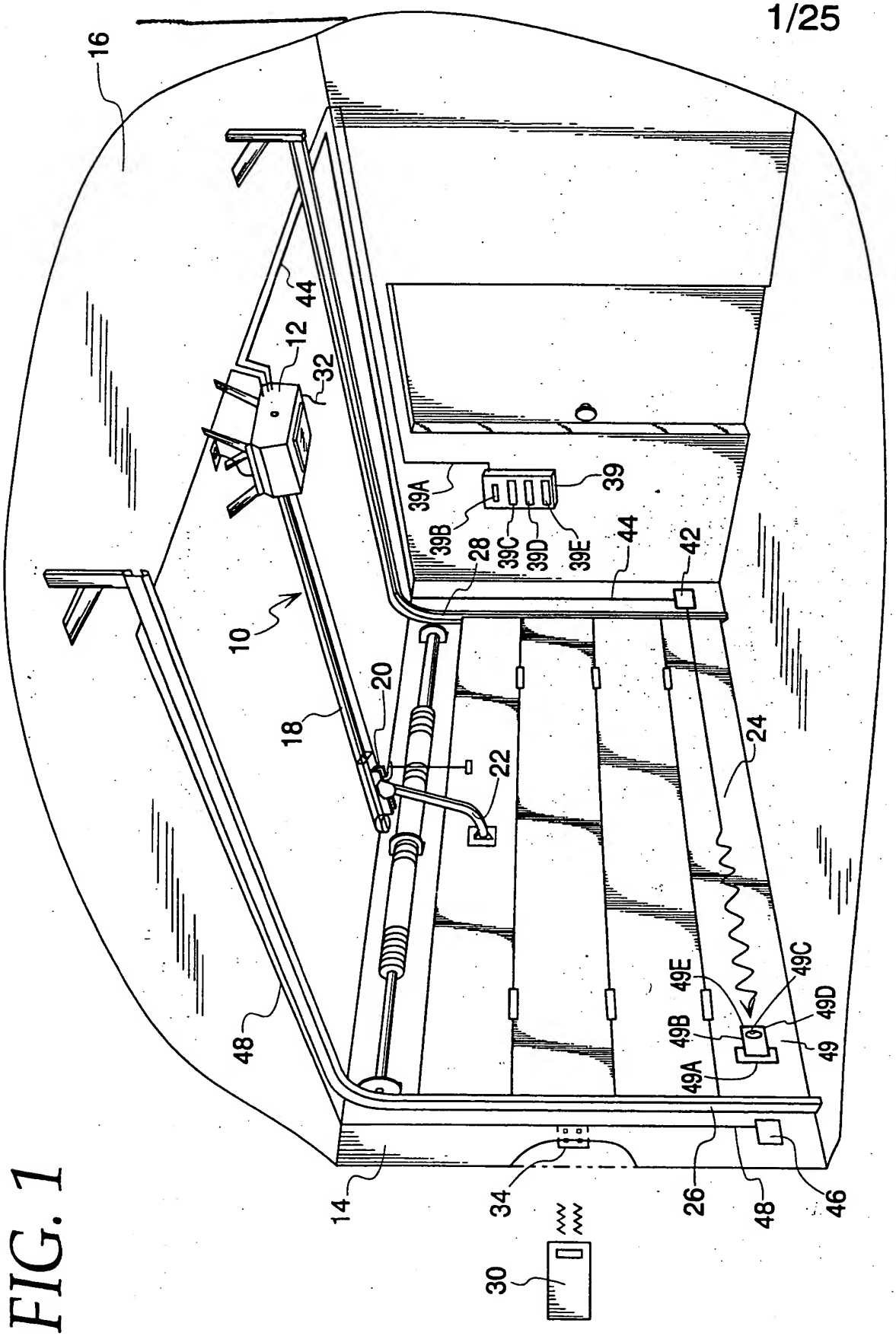

FIG. 1

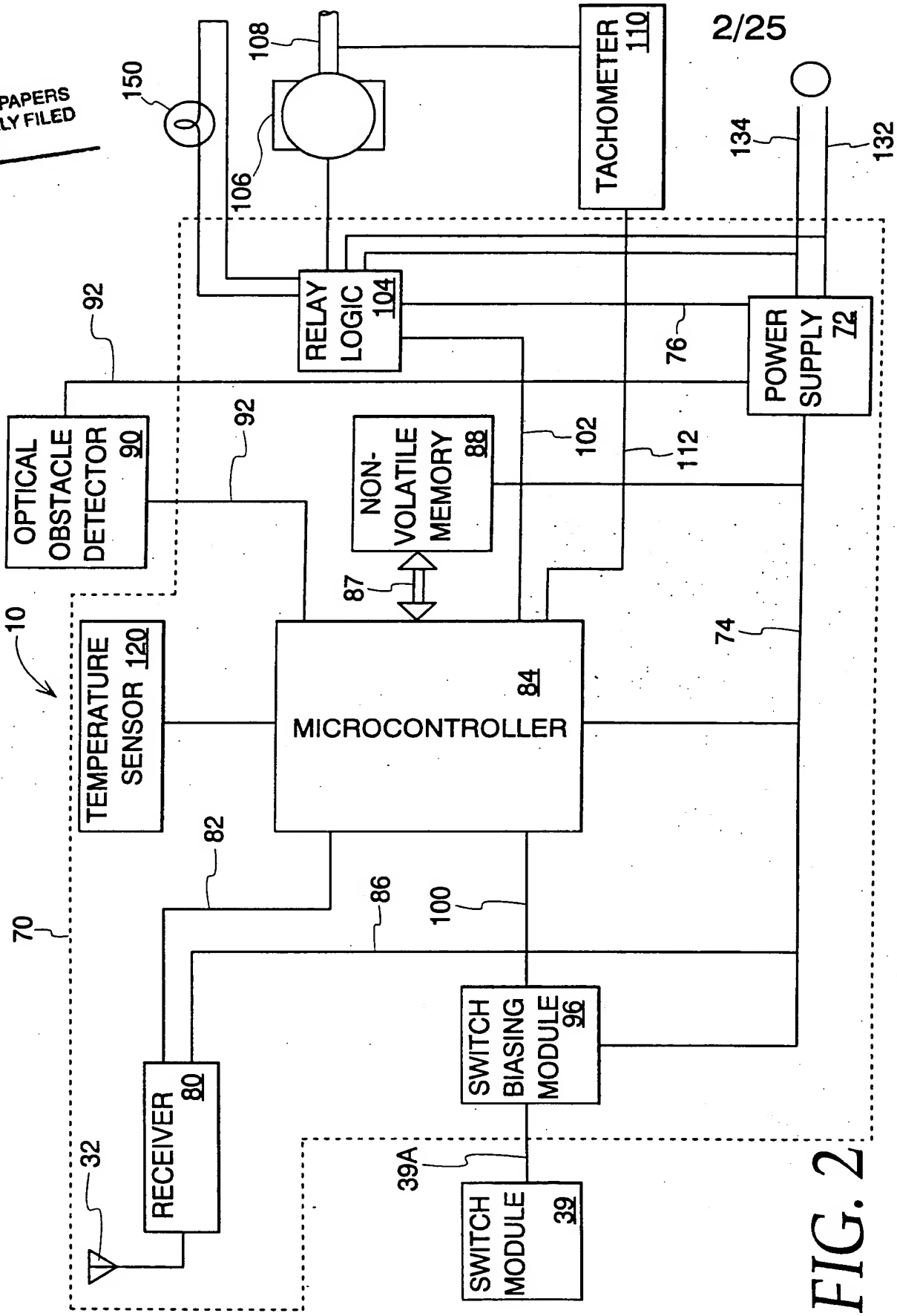

FIG. 2

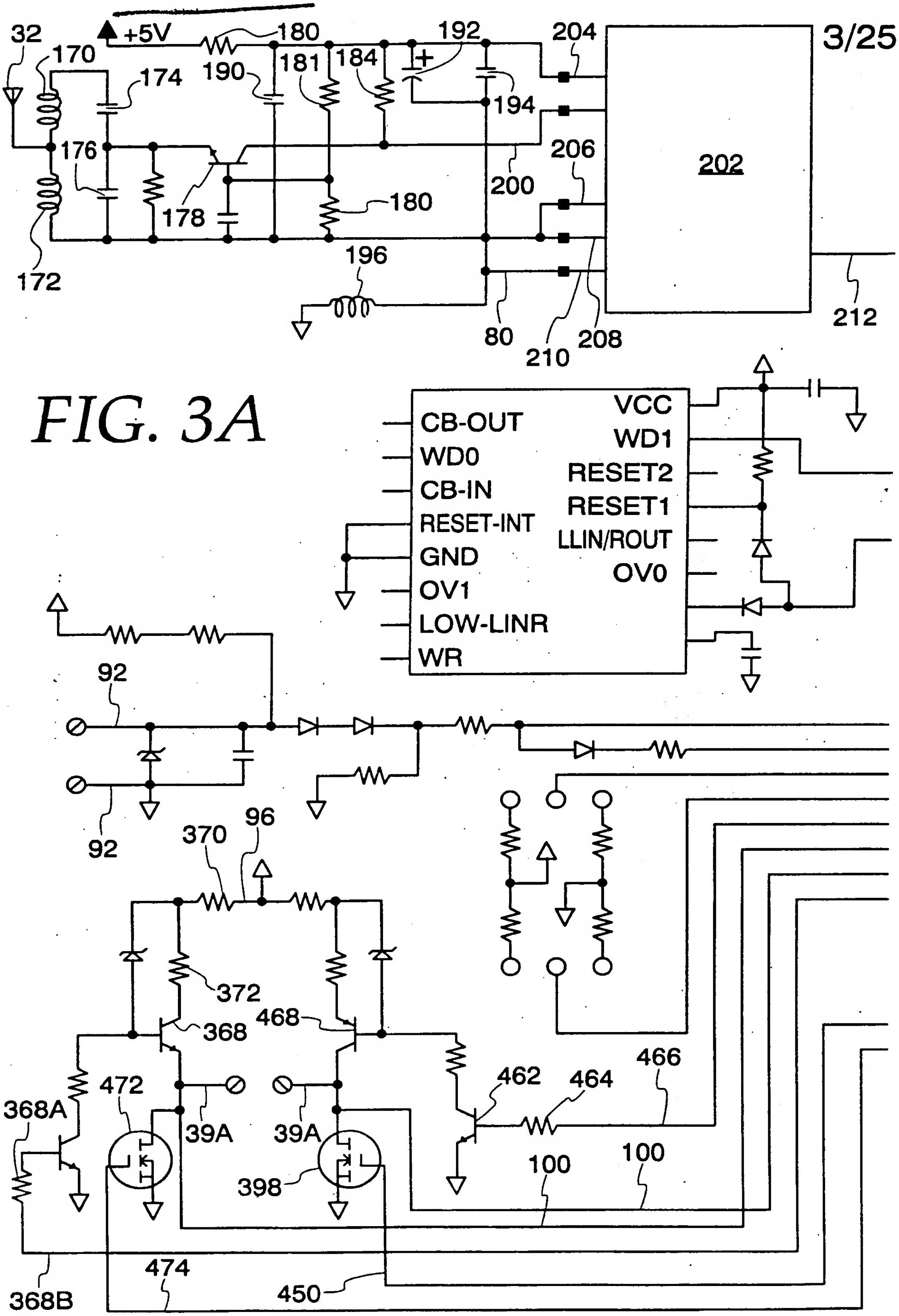

FIG. 3A

FIG. 3B

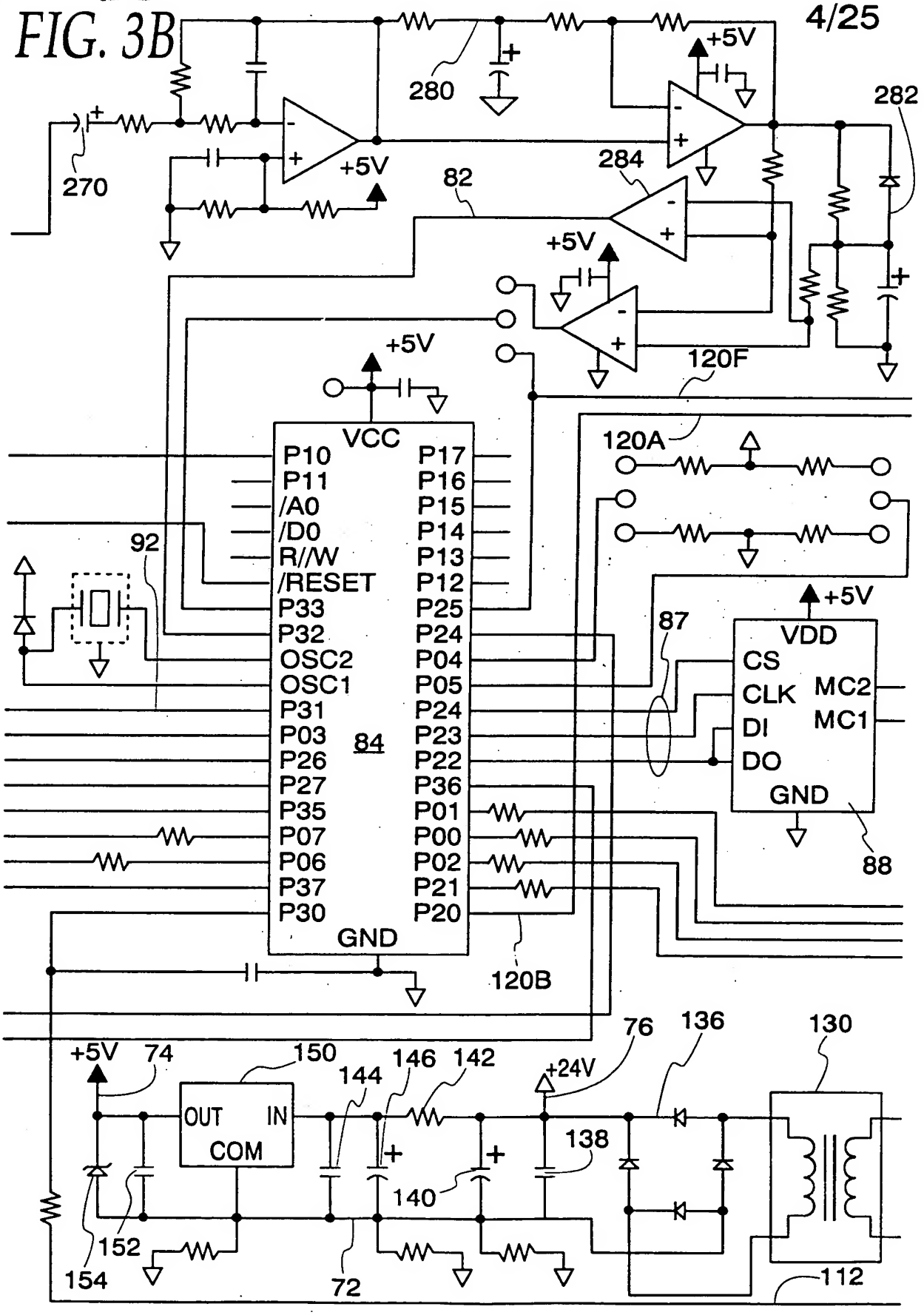

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FIG. 3A	FIG. 3B	FIG. 3C

FIG. 3C

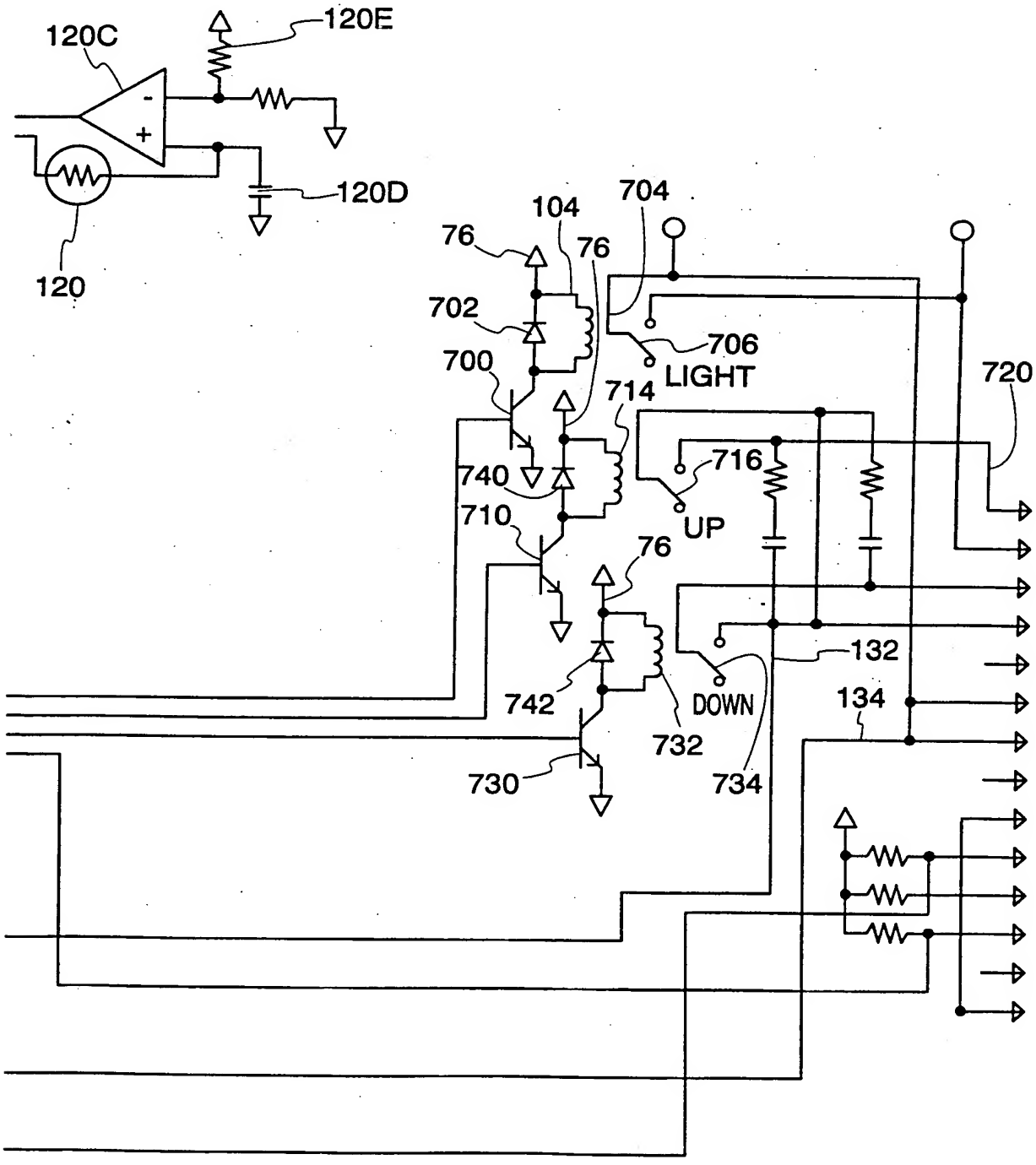

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FIG. 4

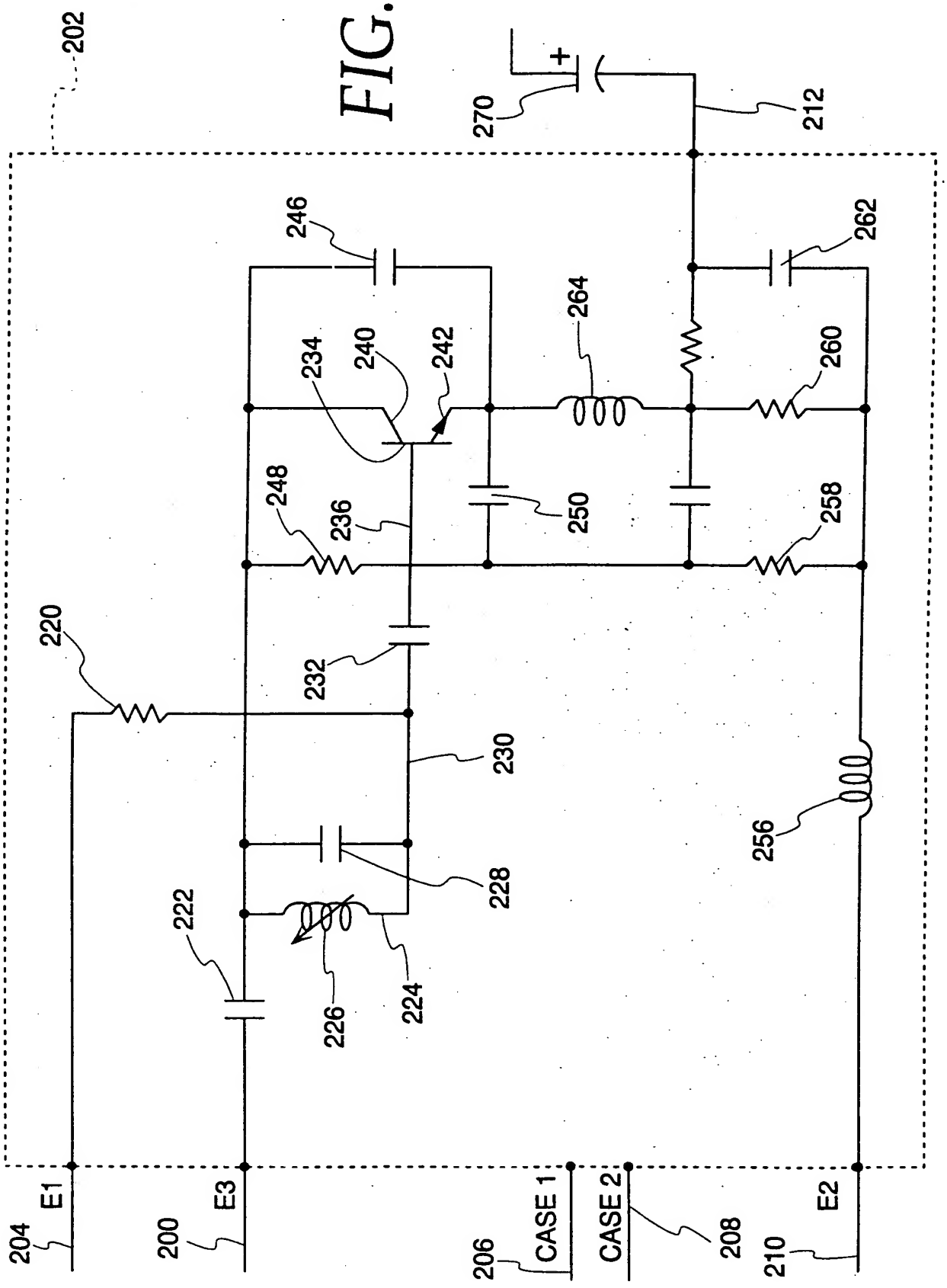
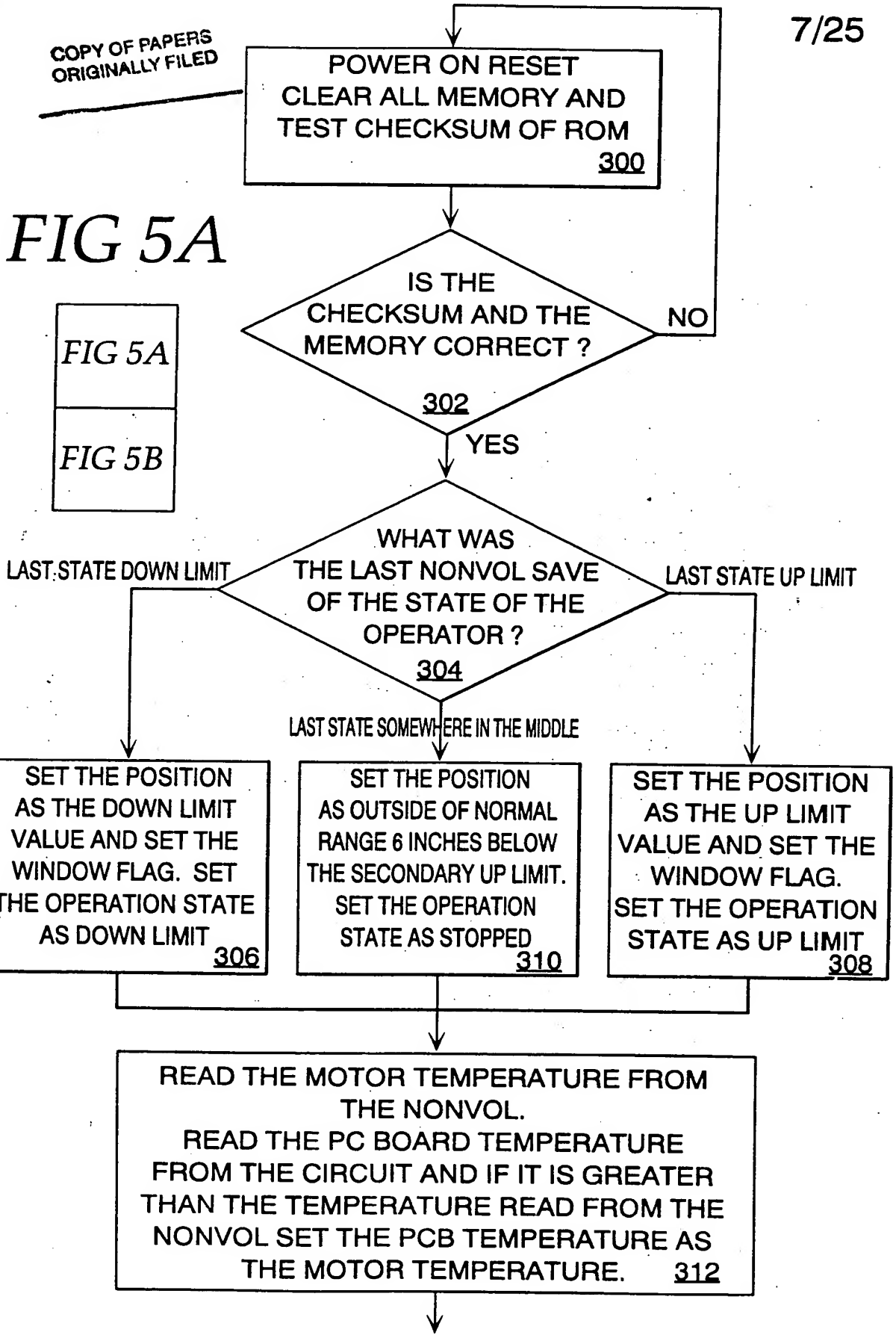


FIG 5A



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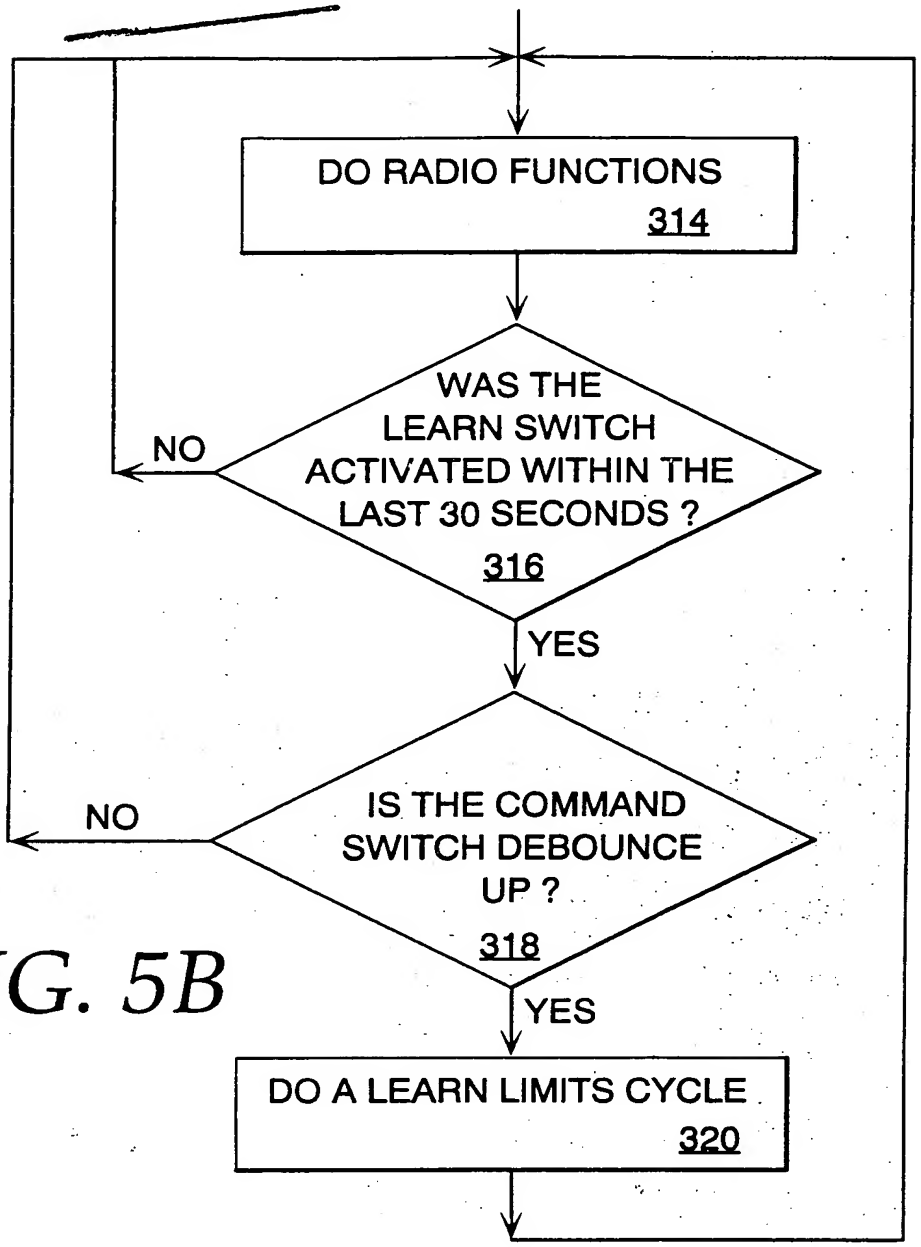


FIG. 5B

TIMER INTERRUPT EVERY 0.5 ms
324

RPM INTERRUPT EVERYFALLING EDGE FROM THE TACH
322

OBSTACLE DETECTOR INTERRUPT EVERY 10MS FROM THE PROTECTOR WHEN THE PHOTOBEAM IS NOT BROKEN
326

CLEAR THE OBSTACLE TIMER THEN RETURN
328

TIMER INTERRUPT IF WALL SWITCH 0.3 ms IF RS232 THEN 0.208 ms

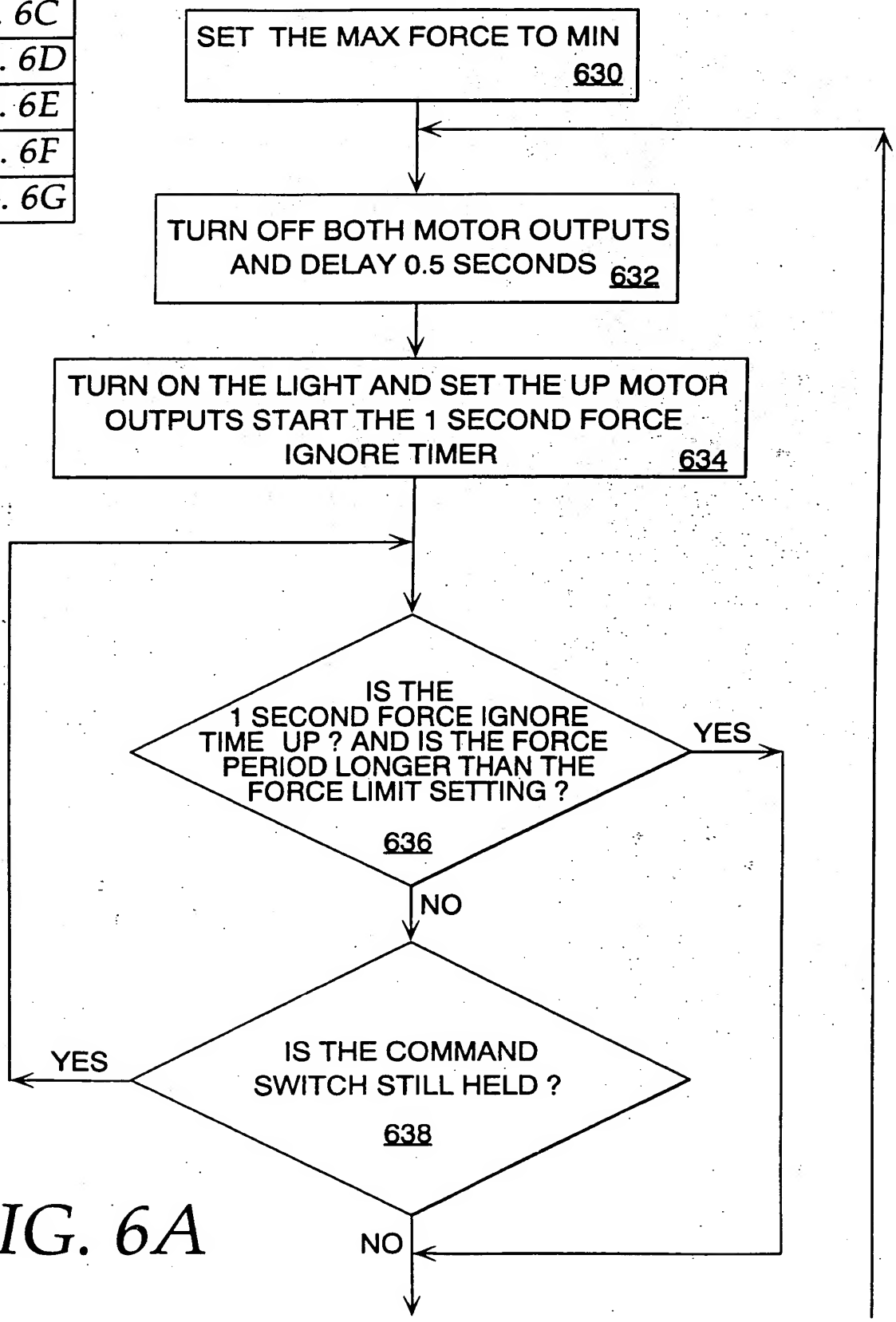


FIG. 6A

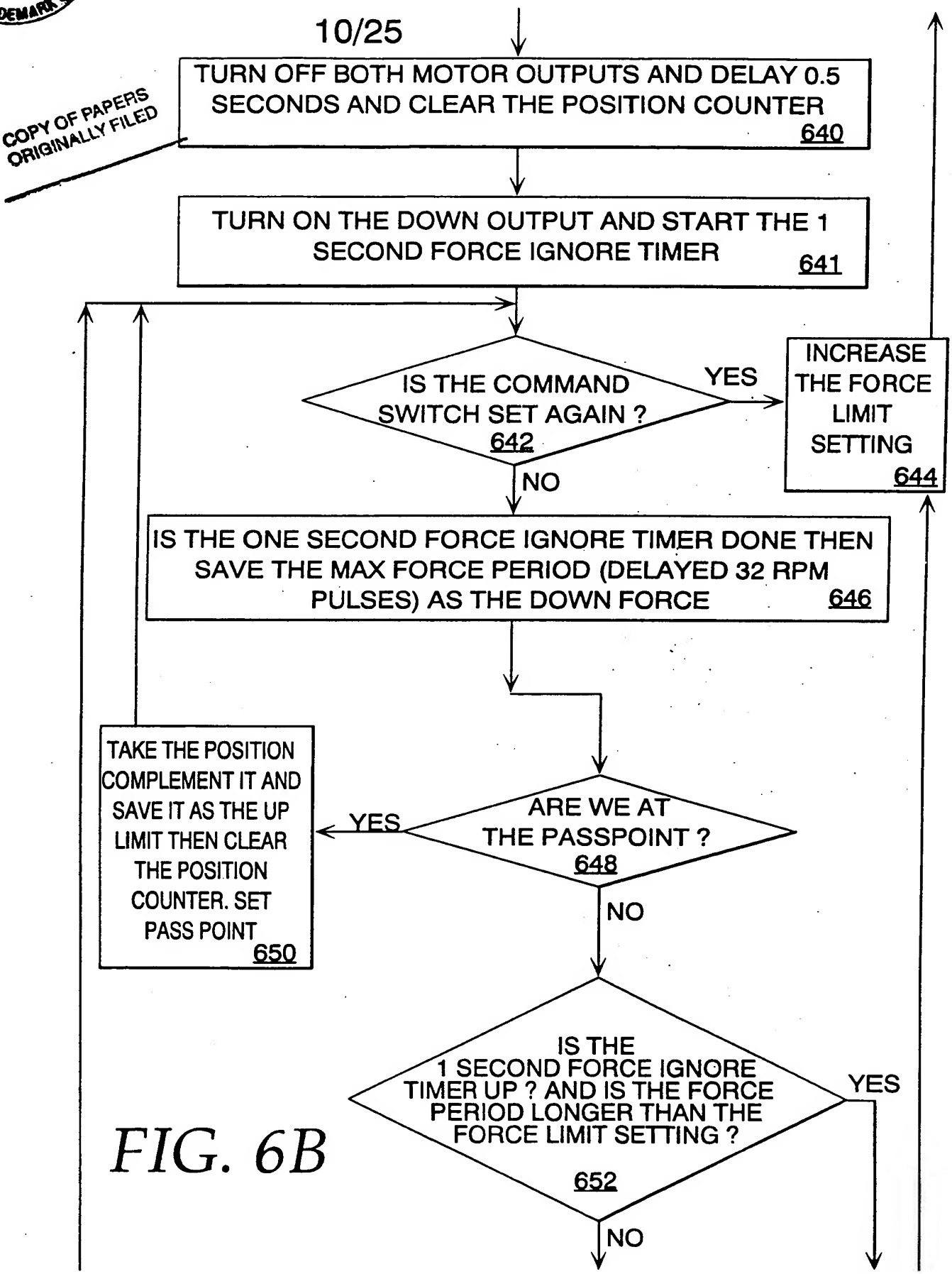


FIG. 6B

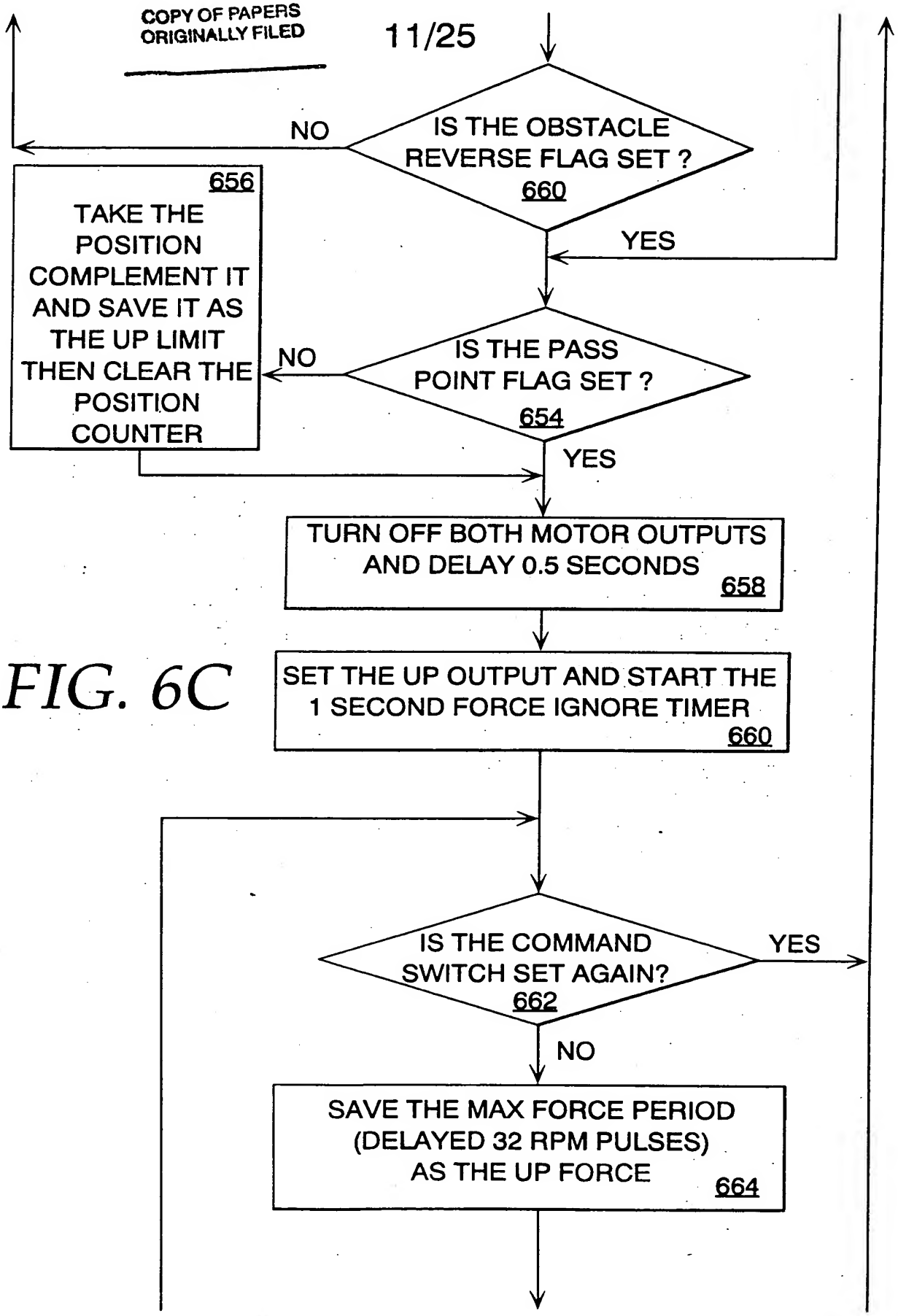


FIG. 6C

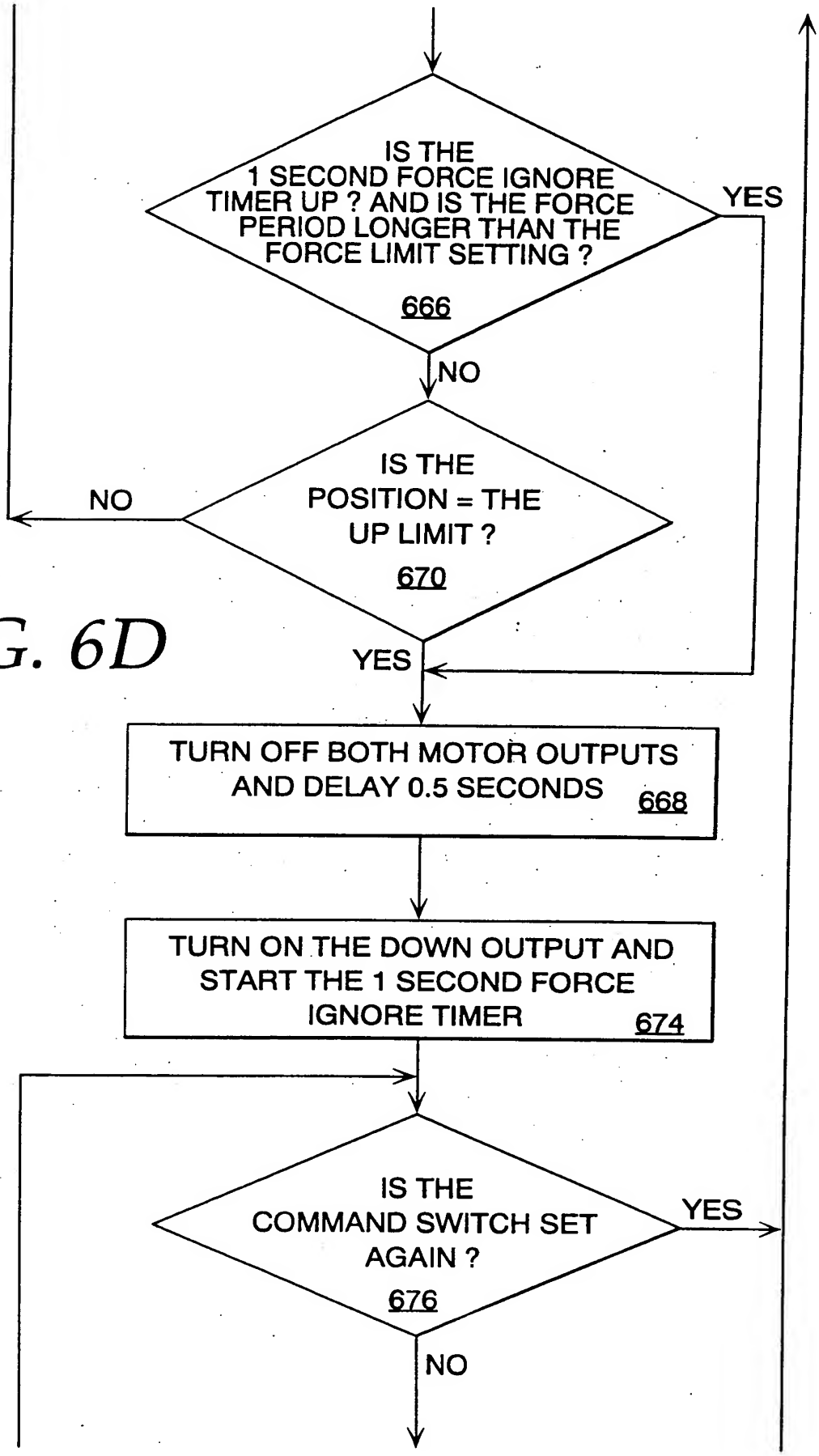


FIG. 6D

FIG. 6E

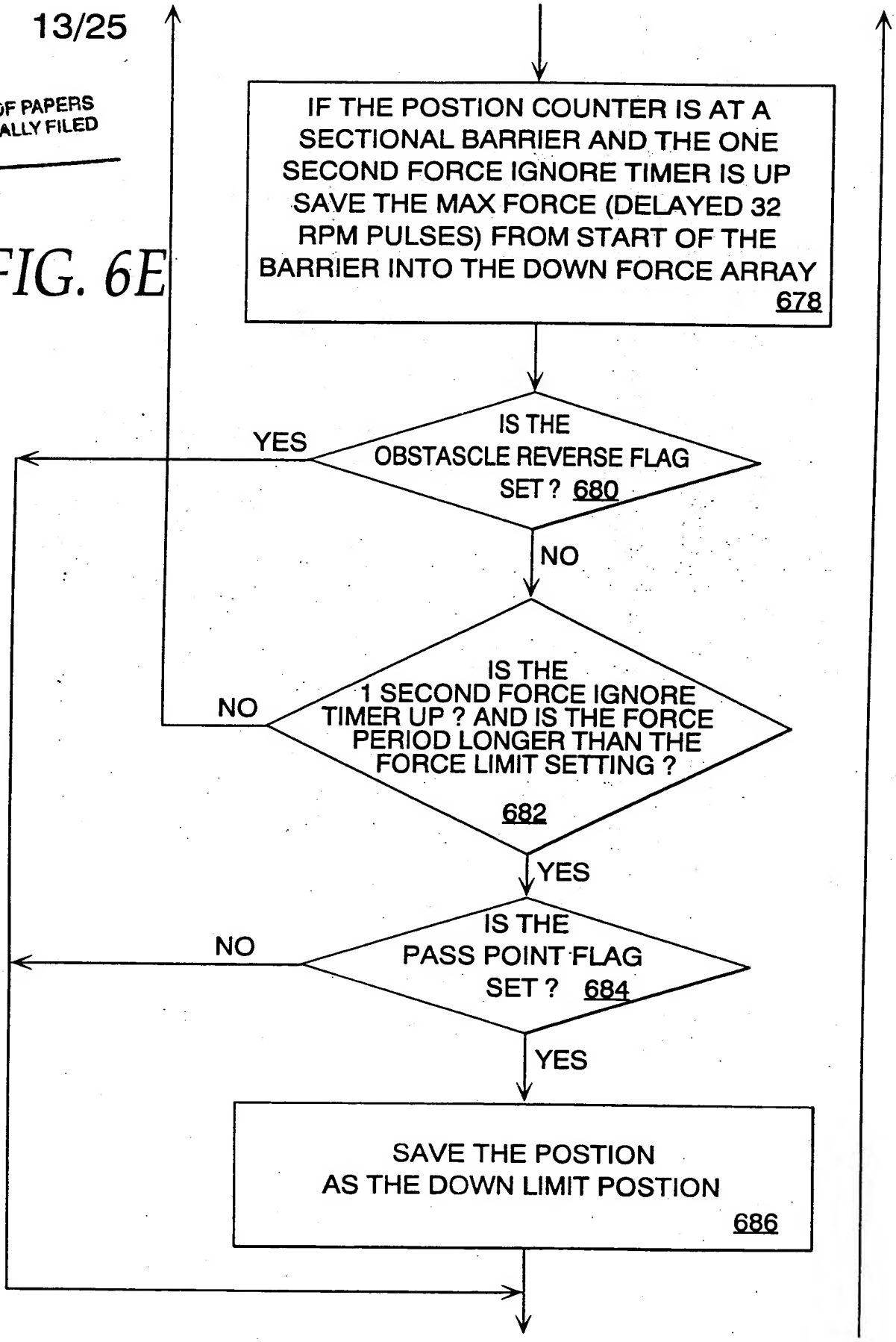
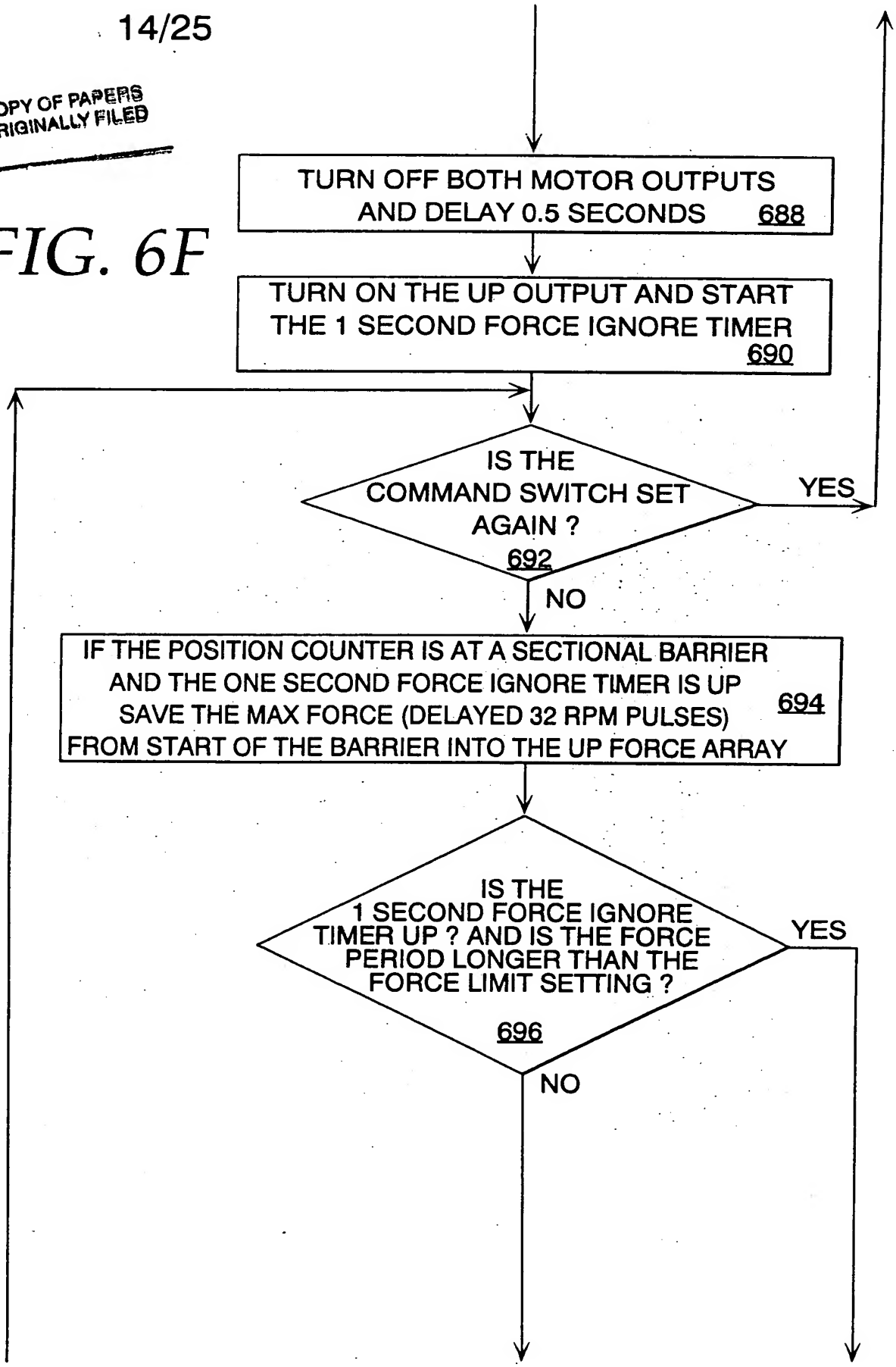


FIG. 6F



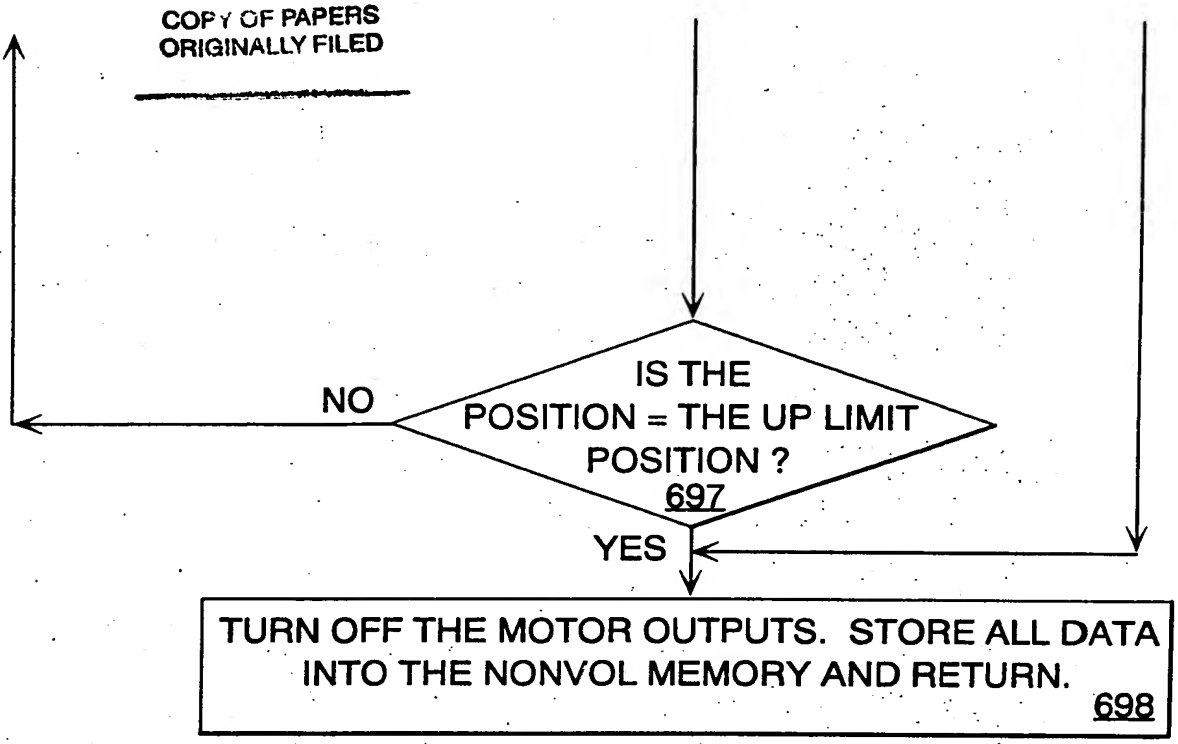
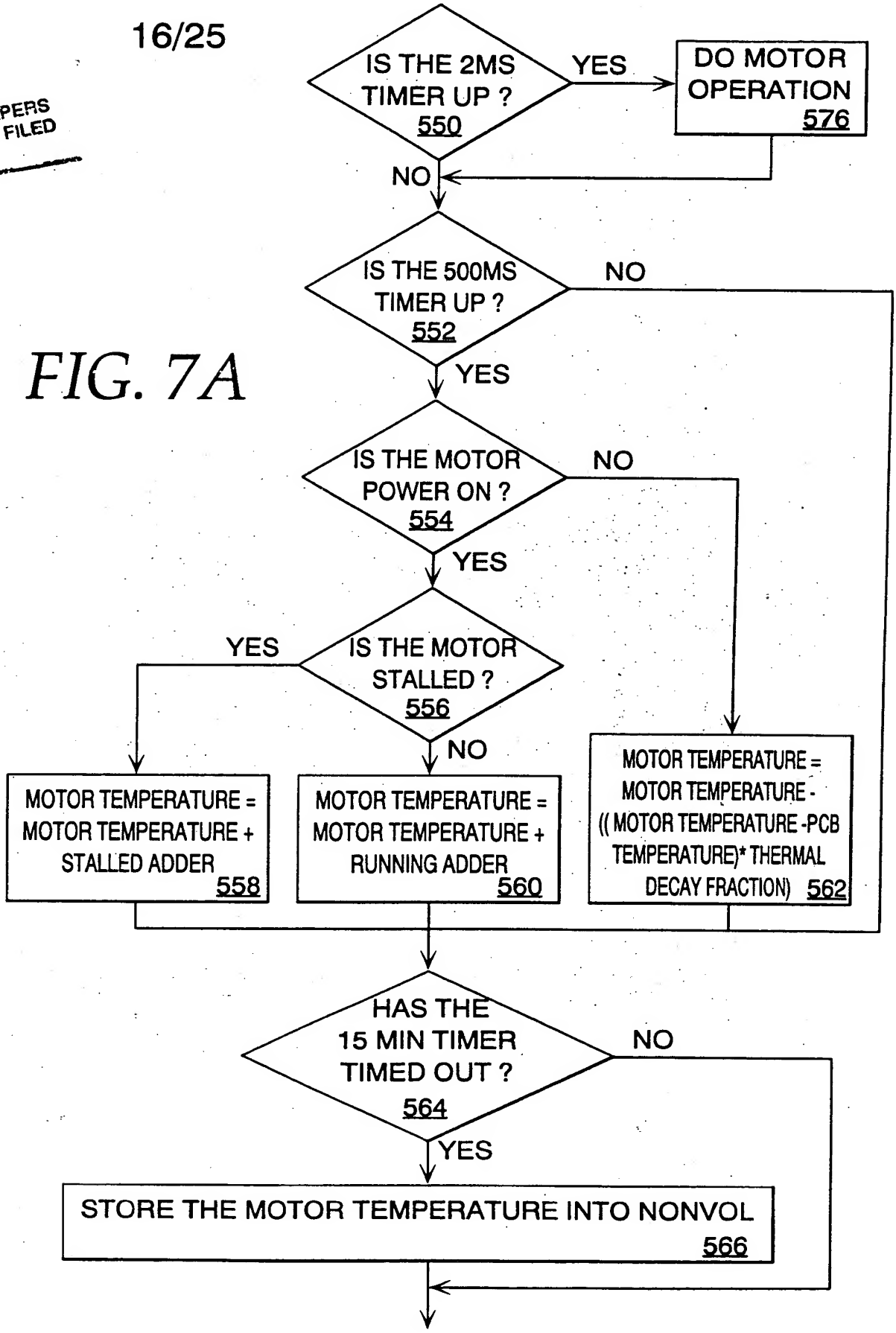


FIG. 6G

FIG. 7A



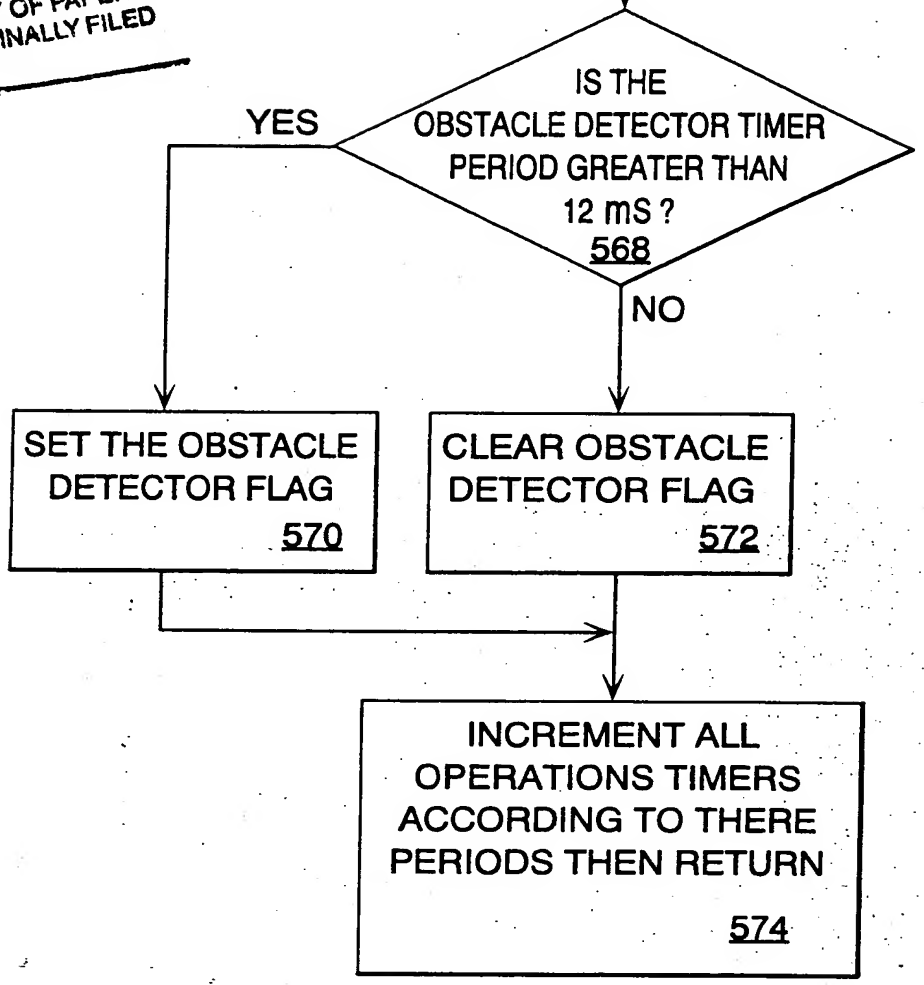
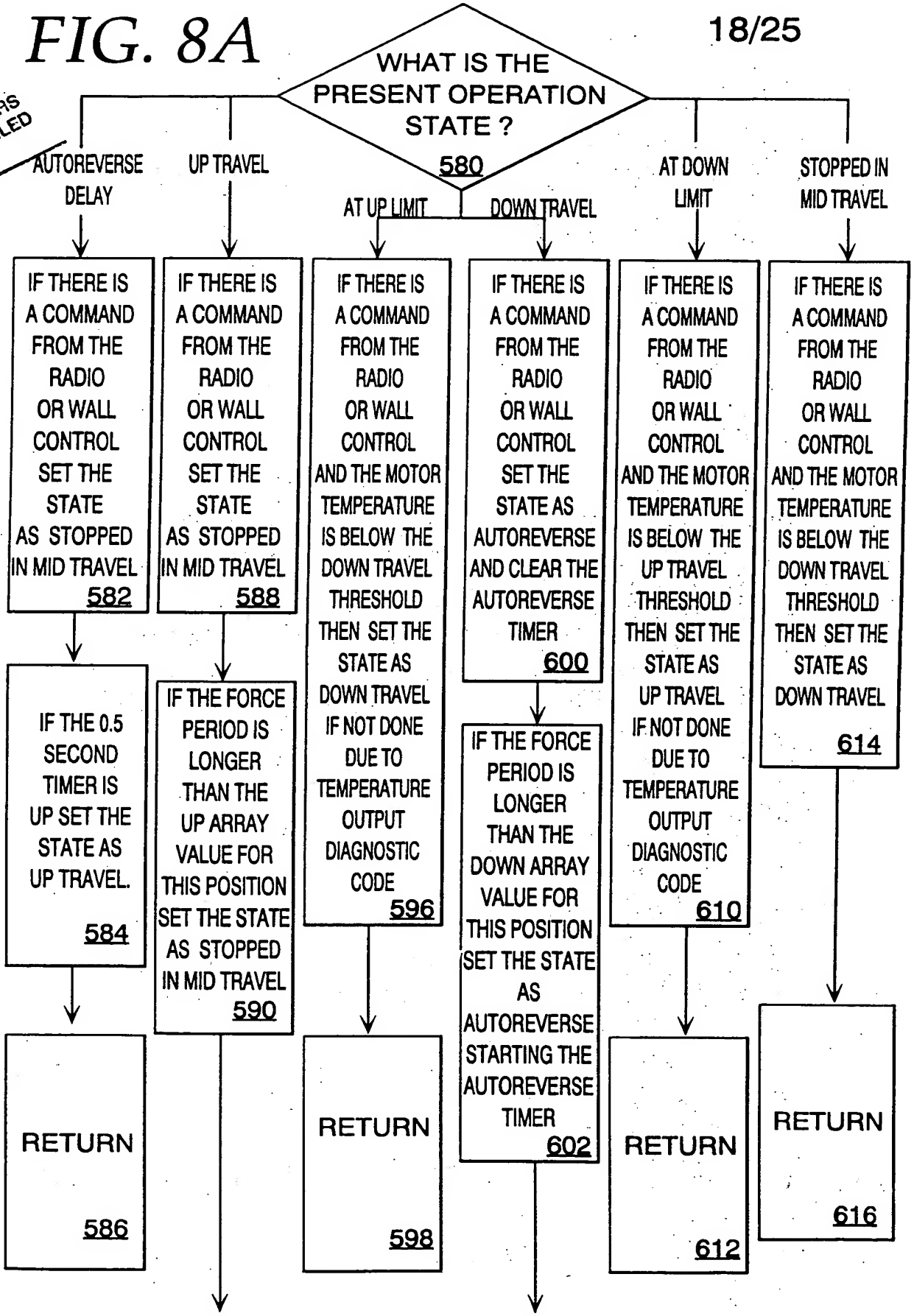


FIG. 7A

FIG. 7B

FIG. 7B

FIG. 8A



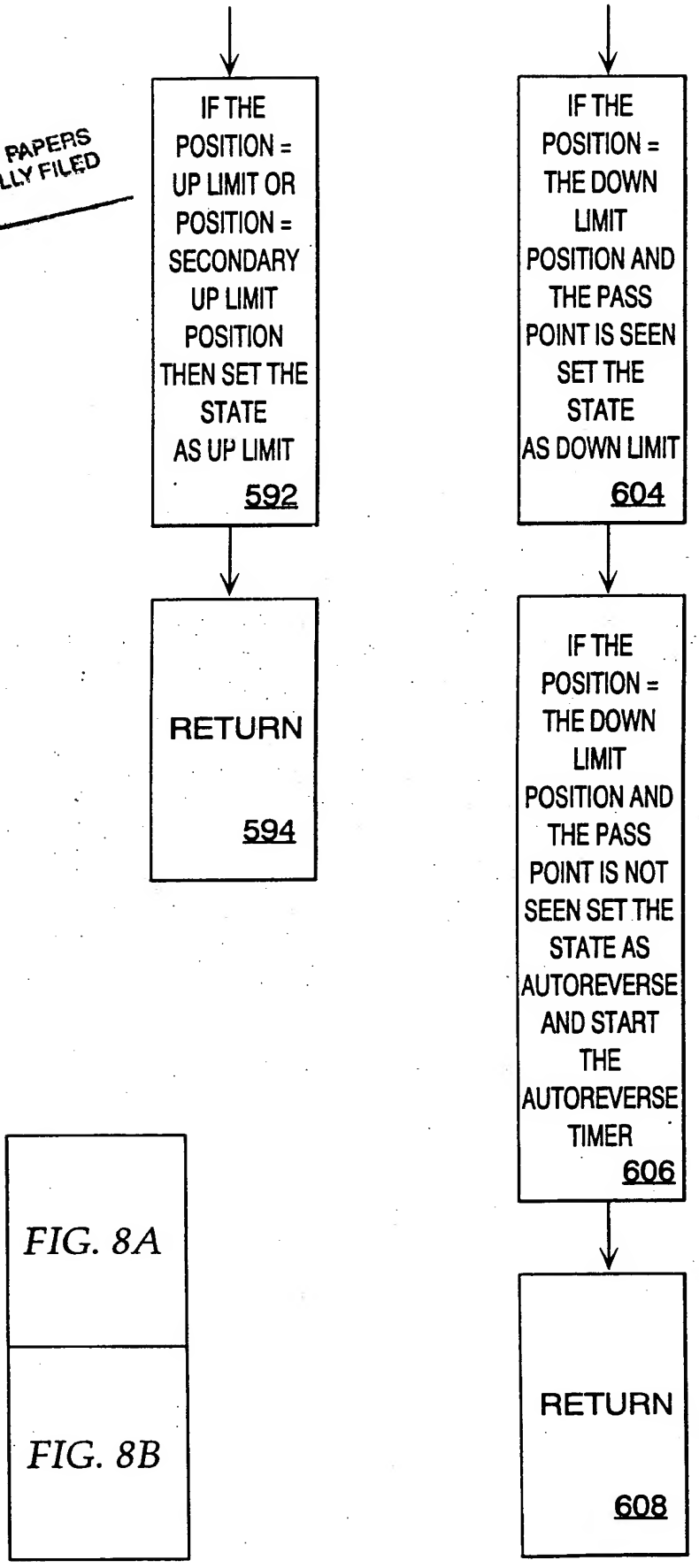


FIG. 8B

FIG. 8A

FIG. 8B

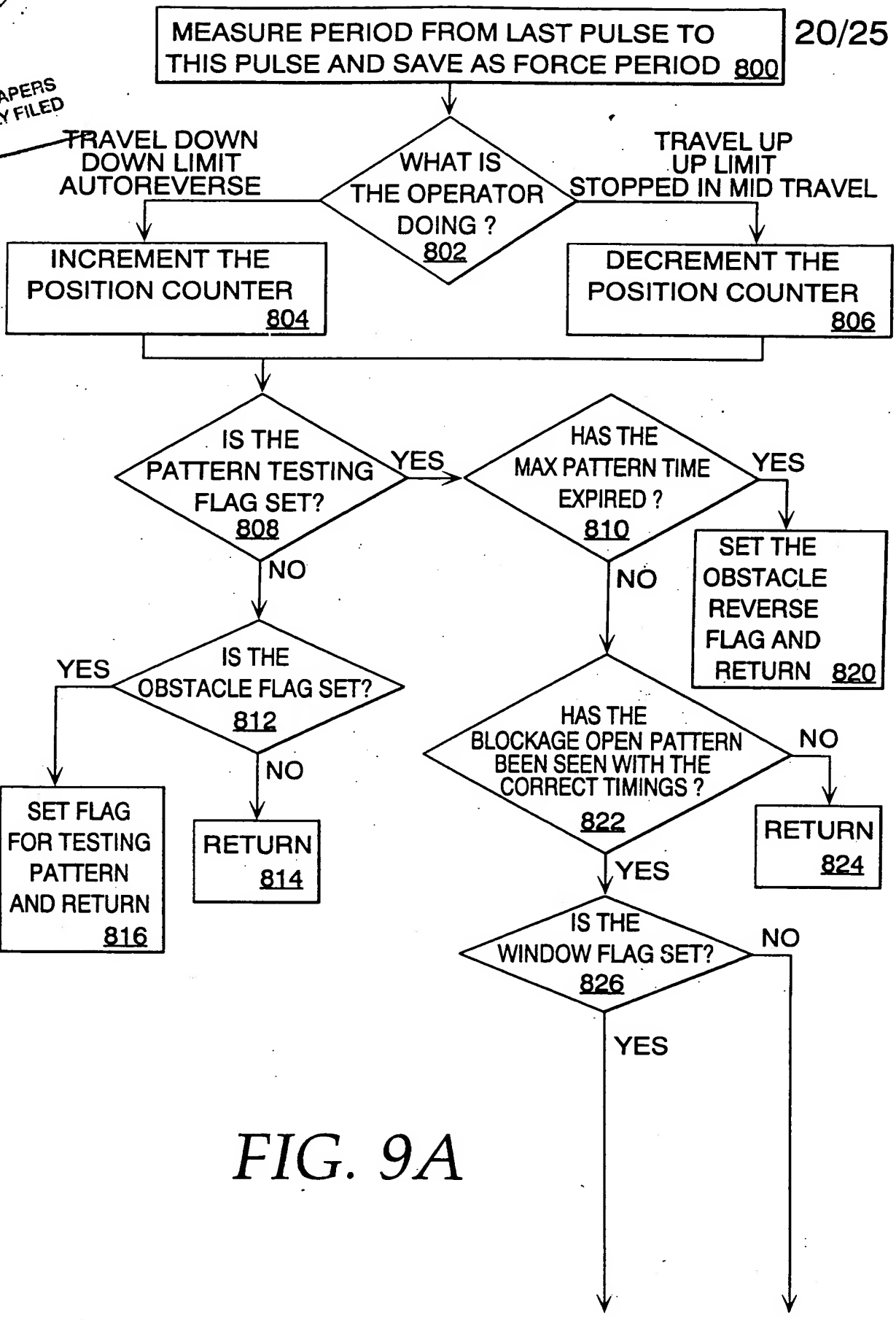


FIG. 9A

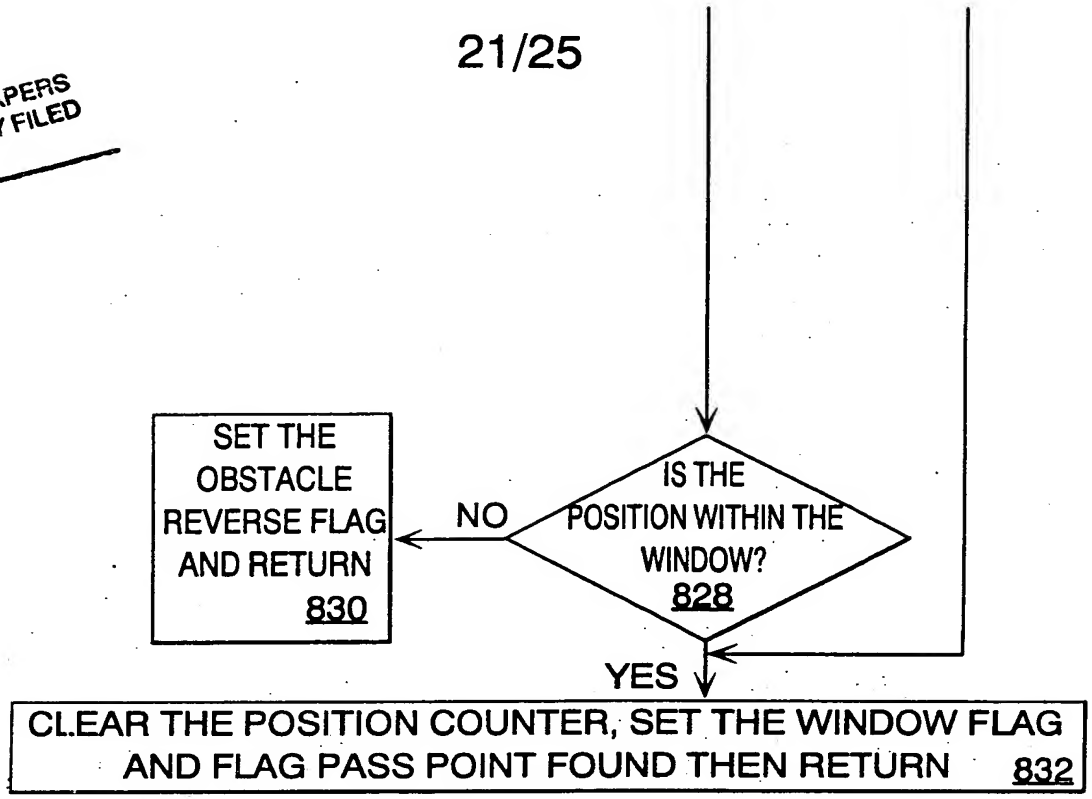


FIG. 9B

FIG. 9A
FIG. 9B

FIG. 10A

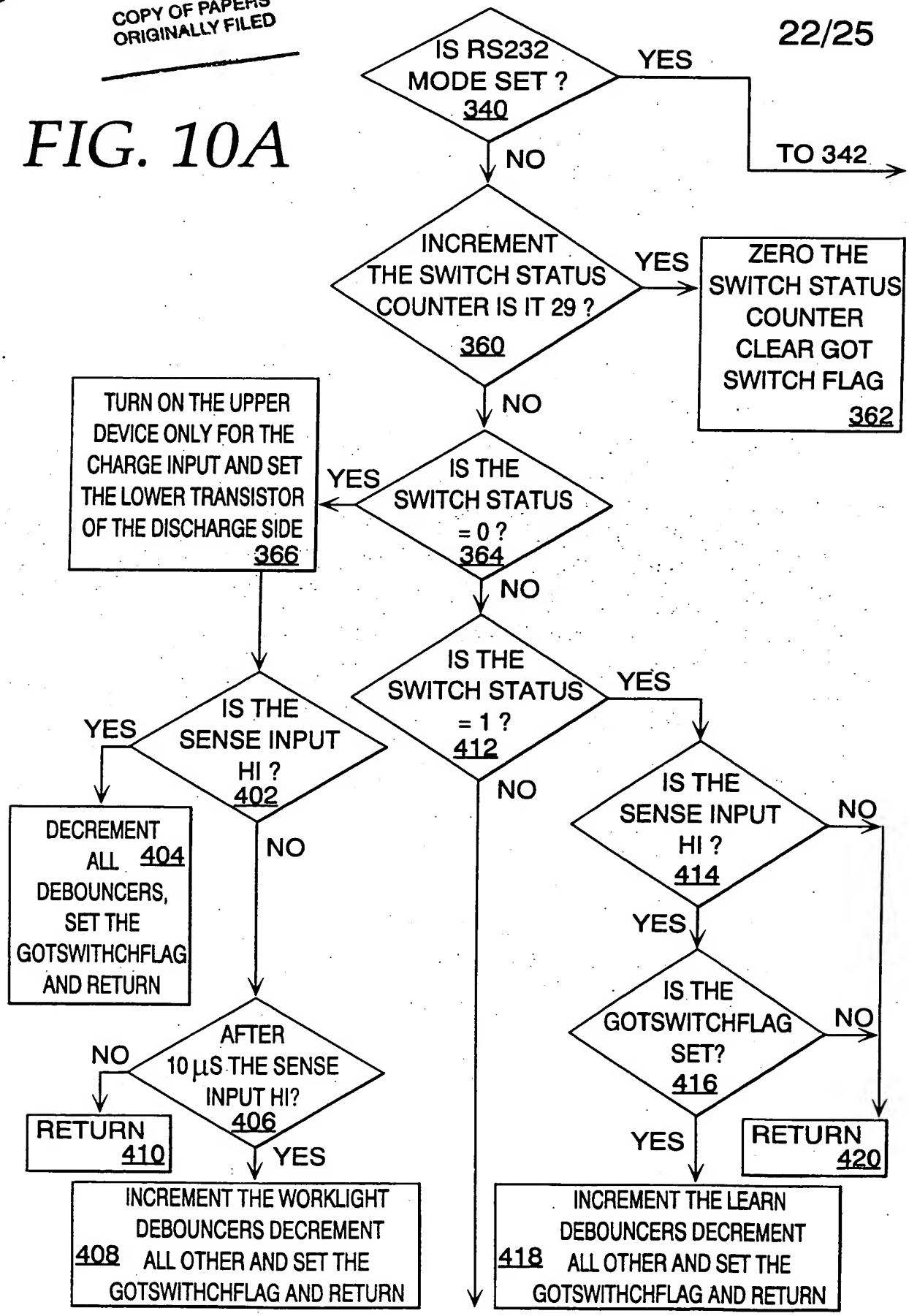


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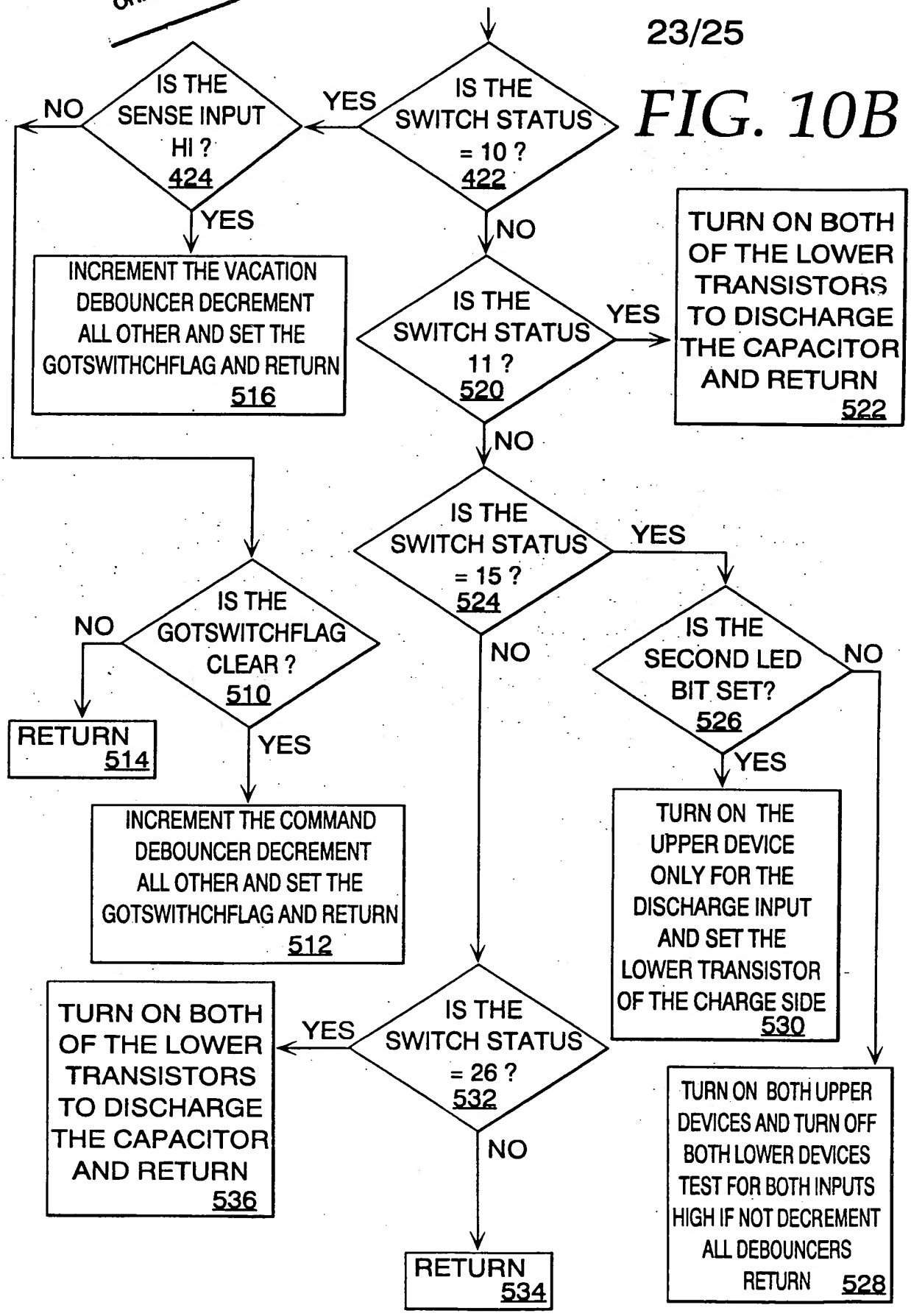
FIG. 10B



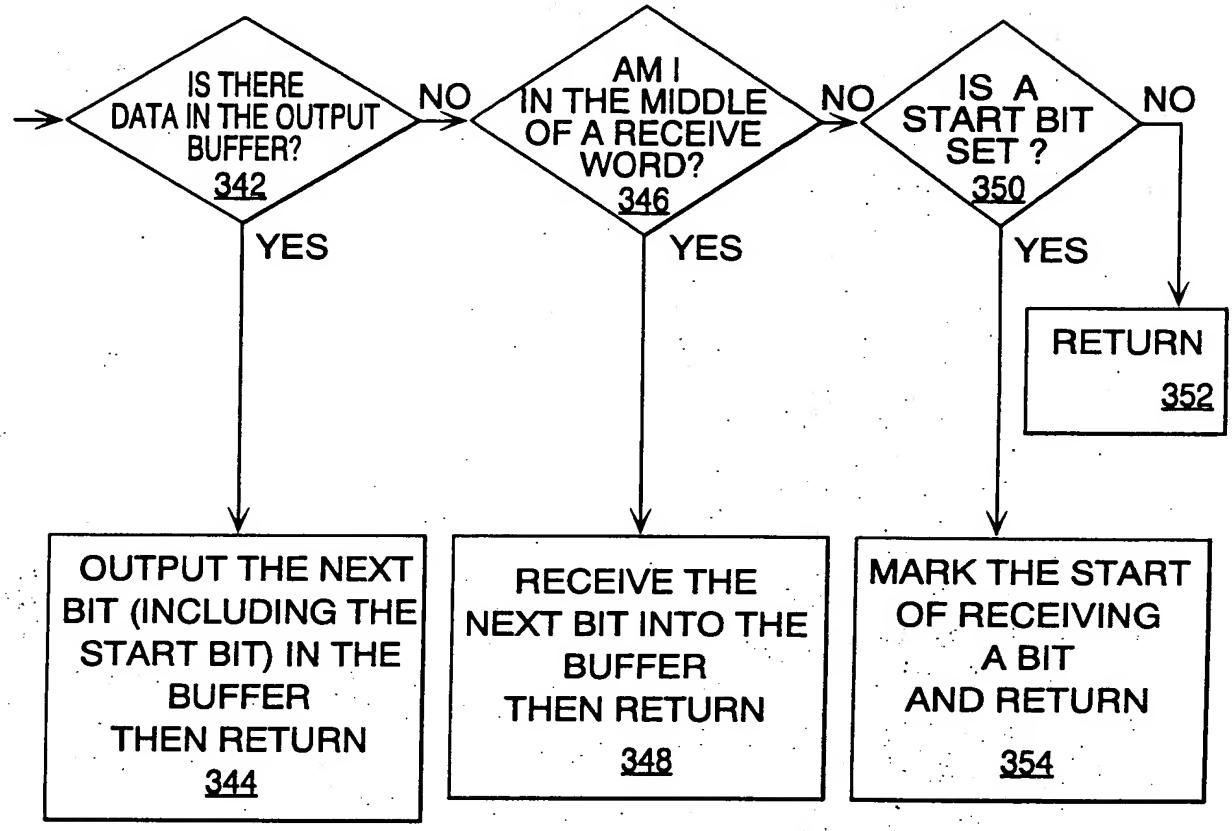


FIG. 10C

FIG. 10A	FIG. 10C
FIG. 10B	

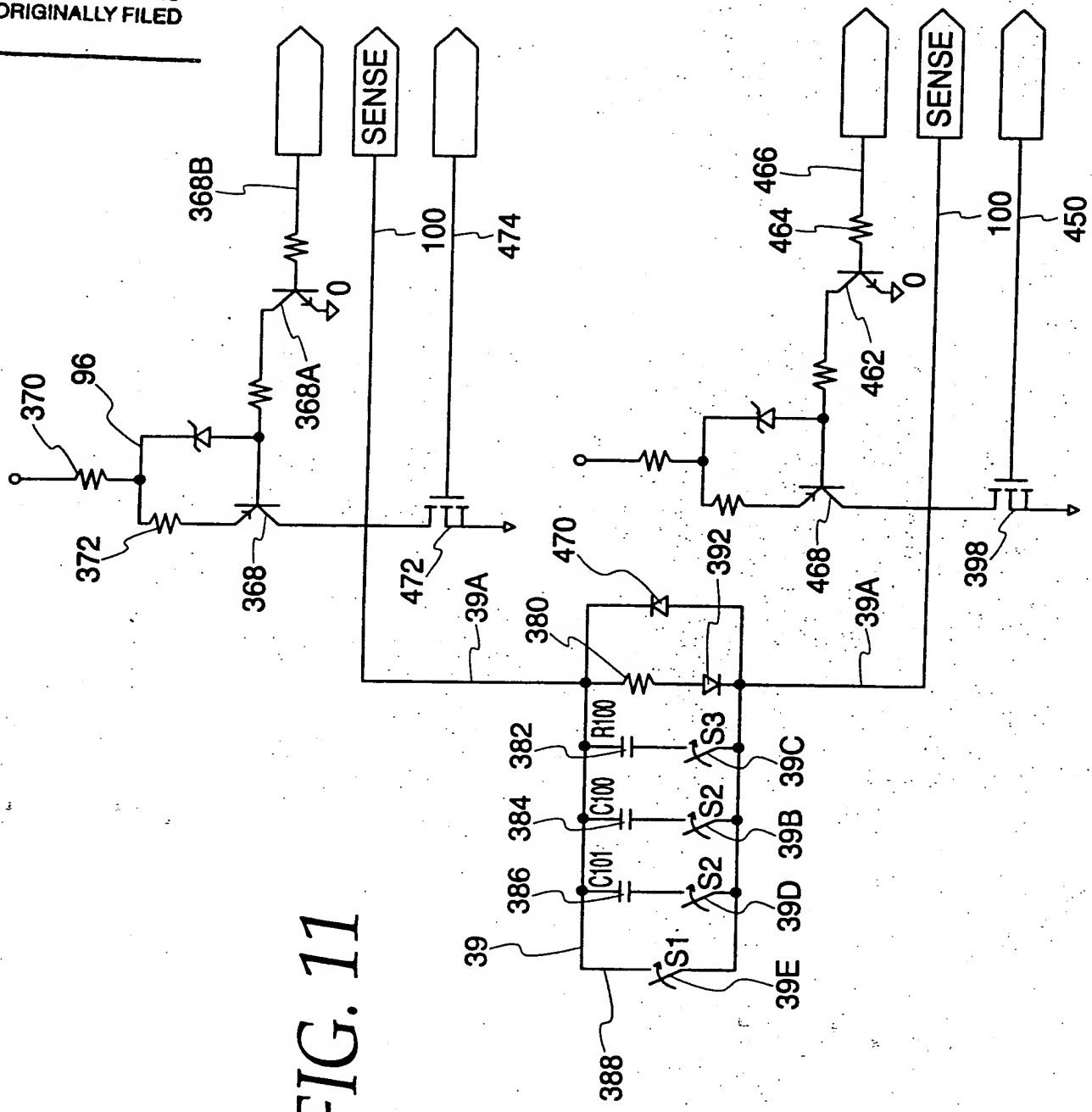


FIG. 11